What multi-instrument discipline-specific data usage services can you suggest, that the GES DISC could/should prepare to ensure that user's multi-sensor data usage needs are accommodated?

Current Multi-Sensor Discipline-Specific Datasets at the GES DAAC

Atmospheric Composition Components:

- Aerosols: TOMS → UARS → OMI, HIRDLS

- Cloud: BUV → TOMS → AIRS → OMI, HIRDLS

- H2O, Humidity: LIMS → UARS → AIRS → HIRDLS, MLS

- Ozone: TOMS → UARS → AIRS → OMI, HIRDLS, MLS

- Most Other Atmospheric Chemicals: UARS → OMI, HIRDLS, MLS

Ocean Color Time Series Project (Gregg, PI)

- Ocean Color: CZCS → OCTS/SeaWIFS -- MODIS

Current Multi-Sensor Discipline-Specific Services at the GES DAAC

- Visualization

- Inter-Sensor Data Comparisons

- Data Merging

- Data Fusion

- Data Co-Registration

- Data Correlation

- Comparison with models

Future Multi-Sensor Discipline-Specific Datasets at the GES DAAC

- Irradiance Data:
  - SORCE → Glory
- Precipitation Data:
  - TRMM, Hydrology Data → GPM
- Ozone (continued, later)
  - TOMS → UARS → AIRS → OMI
- Aerosols:
  - SeaWiFS, MODIS, MISR, OMI → Glory, ACE

Discussion

What multi-instrument discipline-specific data usage services can you suggest, that the GES DISC could/should prepare to ensure that user's multi-sensor data usage needs are accommodated?

For what science and applications research are new data support tools needed?